

cta aag acc cac aca ggc gag aag Leu Lys Thr His Thr Gly Glu Lys

85

<210> 2

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: encoding nucleic acid binding proteins

<400> 2

Ala Glu Glu Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser 10 15 1

Asp Arg Thr Thr Leu Thr Arg His Thr Arg Thr His Thr Gly Glu Lys 20 25 30

Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asn 35 40 45

Leu Thr Arg His Leu Arg Thr His Thr Gly Glu Lys Pro Phe Gln Cys 50 55

Arg Ile Cys Met Arg Asn Phe Arg Gln Ala Asp His Leu Gln Glu His 65 80 70 75

Leu Lys Thr His Thr Gly Glu Lys 85

<210> 3

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleic acid binding protein

<220>

<221> BINDING

<222> (1)..(18)

<223> where X is any amino acid

<400> 3

Xaa Cys Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa 5 10 15

Xaa His

٠. .

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<210> 4
<211> 21
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: where X is any
      amino acid
<220>
<221> BINDING
<222> (1)..(21)
<400> 4
Xaa Cys Xaa Xaa Cys Xaa Xaa Phe Xaa Xaa Xaa Xaa Leu Xaa Xaa
  1
                   5
                                                           15
                                      10
His Xaa Xaa Xaa His
             20
<210> 5
<211> 26
<212> PRT
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<220>
<223> Description of Artificial Sequence: Consensus zinc
      finger structure
<220>
<221> BINDING
<222> (1)..(26)
<400> 5
Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp
  1
                  5
                                      10
                                                          15
Leu Val Lys His Gln Arg Thr His Thr Gly
             20
                                  25
<210> 6
<211> 29
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Consensus
      zinc finger structure
<220>
<221> BINDING
<222> (1)..(29)
<400> 6
Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn
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1 5 10 15
Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro

25

20

<210> 7 <211> 9 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: where x denotes a given combination of the bases at interface between DNA subsites, and the four bases are equally represented at DNA position 3 <220> <221> BINDING <222> (1)..(9) <400> 7 Gly Asn Xaa Xaa Cys Gly Gly Cys Gly 5 <210> 8 <211> 9 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: where X denotes a known combination of the two bases at DNA positions 4X and 5X and there is equal probability of any of the four bases at DNA position 3 <220> <221> BINDING <222> (1)..(9) <400> 8 Gly Asn Xaa Xaa Cys Gly Gly Cys Gly . 5 <210> 9 <211> 9 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: where X denotes a known combination of the two bases at DNA positions 4X and 5X

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<221> BINDING
<222> (1)..(9)
<400> 9
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<210> 10
<211> 28
<212> PRT
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<223> Description of Artificial Sequence: Zinc finger
      binding protein
<220>
<221> BINDING
<222> (1)..(28)
<400> 10
Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Arg Ser Ser Leu
                                      10
                                                           15
                  5
  1
Thr Arg His Thr Arg Thr His Thr Gly Glu Lys Pro
                                  25
             20
<210> 11
<211> 28
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Zinc finger
      binding protein
<220>
<221> BINDING
<222> (1)..(28)
<400> 11
Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Arg Ser His Leu
                                                           15
                                      10
Thr Arg His Thr Arg Thr His Thr Gly Glu Lys Pro
                                  25
             20
<210> 12
<211> 27
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<220>
<223> Description of Artificial Sequence: Zinc finger
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binding protein <220> <221> BINDING <222> (1)..(27) <400> 12 Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Asp Arg Ser Asn Leu 10 5 15 1 Thr Arg His Thr Arg Thr His Thr Gly Glu Lys-20 25 <210> 13 <211> 9 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: Zinc finger binding protein <220> <221> BINDING <222> (1)..(9) <400> 13 Ala Gly Ala Gly Cys Thr Cys 1 <210> 14 <211> 8 <212> PRT <213> Artificial Sequence <220> <223> Description of Artificial Sequence: 8bp palindromic sequence which is bound and cleaved by the restriction endonuclease Notl <220> <221> BINDING <222> (1)..(8) <400> 14 Gly Cys Gly Gly Cys Cys Gly Cys <210> 15 <211> 9 <212> PRT <213> Artificial Sequence <220>

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<223> Description of Artificial Sequence: zinc finger
      binding protein
<220>
<221> BINDING
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<400> 15
Gly Cys Gly Gly Cys Gly Cys Gly
<210> 16
<211> 8
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Notl
      recognition sequence
<220>
<221> BINDING
<222> (1)..(8)
<400> 16
Gly Cys Gly Gly Cys Cys Gly Cys
  1
<210> 17
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Amino acid at
     position 5 may be Cys or ThrT
<220>
<221> BINDING
<222> (1)..(9)
<400> 17
Gly Cys Gly Gly Tyr Cys Gly Cys Gly
  1
                  5
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1